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The invention relates to gas-sensitive devices, in particular to environmentally friendly flexible toxic gas detectors based on tellurium or its alloys, and can be used for the rapid detection of toxic gases at room temperature.

The detector, according to the invention, comprises a flexible insulating substrate, on which is drawn or printed a semiconductor-based gas-sensitive layer, onto which are deposited metal contact electrodes. The gas-sensitive layer is made of a porous Te/SnO₂ nanocomposite, obtained by drying a suspension of hydrothermal reactions of telluric acid with tin chloride.

Claims: 2

Fig.: 6